Draft Summary of the Engineering and Operations Work Group Meeting
Oroville Facilities Relicensing (FERC Project No. 2100)
August 1, 2003

The Department of Water Resources (DWR) hosted the Engineering and Operations Work Group (EOWG) meeting on August 1, 2003 at the Oroville Field Division in Oroville.

A summary of the discussions, decisions made, and action items is provided below. This summary is not intended to be a transcript, analysis of the meeting, or to indicate agreement or disagreement with any of the items summarized, except where expressly stated. The intent is to present an informational summary for interested parties who could not attend the meeting. The following attachments are provided with this summary:

Attachment 1 Meeting Agenda
Attachment 2 Meeting Attendees
Attachment 3 Final Working Draft Resource Action Matrix (Environmental Work Group)
Attachment 4 Model Scenarios (14)
Attachment 5 Summary of Potential Model Runs
Attachment 6 2004 Collaborative Meeting Calendar

Introduction
Attendees were welcomed to the EOWG meeting. The meeting agenda and desired outcomes were reviewed. The meeting agenda and list of meeting attendees and their affiliations are appended to this summary as Attachments 1 and 2, respectively.

June 27, 2003 Meeting Summary and Action Items
A summary of the June 27, 2003 EOWG is posted on the relicensing web site. The EOWG reviewed the status of action items from that meeting as follows:

Action Item EO#79: Provide expanded descriptions of Modeling Scenarios to EOWG.
Status: A discussion of expanded descriptions for the modeling scenarios occurred later during the meeting. See summary of discussion below.

Action Item EO#80: Develop draft Engineering and Operations Matrix similar to Environmental Work Group matrix.
Status: Curtis Creel, DWR Operations Resource Area Manager reported that this task is underway. He distributed a sample matrix from the Environmental Work Group that includes resource actions related to flow and dependent on modeling results for analysis and discussed how the E&O matrix would relate to the environmental resource actions.

Carry Over Items:
Action Item EO#75: Look at existing studies regarding flood control completed by the Corps of Engineers (COE) Comprehensive Plan to determine what needs to be modeled for the relicensing process.
Status: This action item will be postponed pending discussion of flood management analysis at August 29th EOWG meeting.

Action Item EO#78: Develop an agenda for multi-day, cross resource model results workshop and distribute a draft to the EOWG for review and comment.

Status: Curtis reported that the complete benchmark studies will not be completed by the planned August workshop date but he will have scenarios run using representative strings of years for comparative analysis later in the fall. He envisions a multi-issue, cross-resource meeting at that time to include a discussion of modeling results and then breakout sessions for participants to focus on solving specific problems. The groups could then reconvene to discuss results. The EOWG agreed with the overall process and tabled this action item until after the Modeling Workshop scheduled on August 12, 2003.

Revised Modeling Scenarios

Curtis Creel distributed a package containing fourteen modeling run scenario descriptions and a summary table of the potential runs (Attachments 4 and 5); he described the scenarios as under development with the goal to revise and refine them before they are run. He explained that the benchmark scenario includes the full suite of models, uses current level of development hydrology and current regulatory framework and will be used as the basis or existing conditions to which other runs will be compared. CALSIM II has been completed and the others are in progress.

The EOWG reviewed the fourteen scenarios with the following specific comments:
Scenario 1: Power generation will be an output of this scenario. The model uses Energy Commission price index data. Temperature information will be provided for Thermalito Complex and Feather River.

Scenario 2: This scenario eliminates maximums and minimums in power production and will provide information related to water temperature in a 'flow-through' condition.

Scenario 4: Title restated as "Maintain consistent fluctuation schedule in Thermalito Afterbay during bass and waterfowl nesting periods".

Scenario 5: Scenario doesn't remove the Fish Hatchery from the system but changes the temperature requirement so the hatchery is not controlling facility releases.

Scenario 7: This scenario was developed to help answer the question of the relationship of flow to superimposition posed by the Environmental Work Group.

Scenario 12: The EOWG agreed that this scenario should be referred to the Environmental Work Group for review because it may by accomplished through a desktop study with no modeling necessary.

Scenario 13: Relationship between lake levels and socioeconomics is being developed in the Recreation and Socioeconomics studies. Consider evaluating maximum demand instead of setting the minimum to zero and evaluate whether temperature requirements are consistent with dead pool operation.

Scenario 15: A detailed description was not provided for this scenario but the EOWG discussed potential to construct a channel to carry water around the Thermalito Afterbay either using a temperature curtain or some other segregating device to move colder water through the system quickly and allow water with higher residence time to warm for agricultural and recreational uses. The EOWG suggested this is probably a desktop study.

Scenario 16: This scenario could be combined with Scenario 8 and should be reviewed by Environmental Work Group for interest prior to development.

Scenario 17: This scenario is a sensitivity analysis to determine the downstream extent of Oroville Facilities temperature control. The EOWG suggested this should be prioritized as an early model run because it may provide important information to feed into other scenarios.

DWR and the consulting team will revise the scenarios based on the discussion and Curtis will coordinate with the Environmental Work Group RAM and Fisheries Task Force for necessary clarification or additional modeling needs.

Next Steps
The Facilitator distributed draft calendars that identify meeting dates for the Plenary Group and Work Groups through December 2004 (Attachment 6).

The EOWG participants agreed to meet:
Date: August 29, 2003
Time: 10:00 – 3:00 pm
Location: OFD with teleconference capabilities and videoconference with SJFD

Action Items
The following action items were identified by the Engineering and Operations Work Group and includes a description of the action, the participant responsible for the action, and due date.

Action Item EO#81: Coordinate with Environmental Work Group to clarify potential modeling scenarios 12 and 16 and obtain additional information from Fisheries Task Force regarding questions to be answered by modeling effort.
Responsible: DWR/Consulting team
Due Date: September 2003

Carry Over

Action Item EO#75: Look at the existing studies regarding flood control completed by the Corps of Engineers (Comprehensive Plan) to determine what needs to be modeled for the relicensing process.
Responsible: DWR/Consulting team
Due Date: August 1, 2003

Action Item EO#76: Further develop potential model scenarios and distribute a revised draft to the EOWG for review and comment. Summarize the information in spreadsheet format.
Responsible: DWR/Consulting Team
Due Date: June 27, 2003

Action Item EO#78: Develop an agenda for multi-day, cross resource model results workshop and distribute a draft to the EOWG for review and comment.
Responsible: DWR/Consulting team
Due Date: June 27, 2003

Action Item EO#80: Develop draft Engineering and Operations Matrix similar to Environmental Work Group matrix.
Responsible: DWR/Consulting team
Due Date: August 1, 2003